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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

Complete if Known

Application Number	10/071,688
Filing Date	February 8, 2002
First Named Inventor	Kuehmann, Charles J.
Group Art Unit	1742
Examiner Name	tba
Attorney Docket Number	04019.00021

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
DY		US-			
		US- 3,756,808	09/04/1973	D. Webster	
		US- 3,873,378	03/25/1975	Webster	
		US- 4,585,479	04/29/1986	Aoki et al.	
		US- 4,846,904	07/11/1989	Arai et al.	
		US- 4,902,472	02/20/1990	Isobe et al.	
		US- 5,017,246	05/21/1991	Miyasaka et al.	
		US- 5,049,210	09/17/1991	Miyasaka et al.	
		US- 5,152,848	10/06/1992	Ohma	
		US- 5,284,530	02/08/1994	Azuma et al.	
		US- 5,298,093	03/29/1994	Okamoto	
		US- 5,358,577	10/25/1994	Uehara et al.	
		US- 5,433,798	07/18/1995	Takano et al.	
		US- 5,672,215	09/30/1995	Azuma et al.	
		US- 5,714,016	02/03/1998	Ueda et al.	
		US- 716,465	02/10/1998	Hara et al.	
		US- 5,746,845	05/05/1998	Yoshida et al.	
		US- 5,820,699	10/13/1998	Asahi et al.	
		US- 5,824,264	10/20/1998	Uno et al.	
		US- 5,849,111	12/15/1998	Igarashi et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
DY		WO 97/12073	4/3/1997	CRS Holdings, Inc.		
		WO 98/10112	3/12/1998	CRS Holdings, Inc.		
		WO 99/07910	2/18/1999	CRS Holdings, Inc.		
		WO 99/36584	7/22/1999	CRS Holdings, Inc.		
		WO 00/26428	5/11/2000	CRS Holdings, Inc.		
		WO 00/53821	9/14/2000	CRS Holdings, Inc.		
		WO 00/65120	11/2/2000	CRS Holdings, Inc.		
		WO 01/10591 A1	8/7/2000	Sumitomo Metal Industries, Ltd.		
		WO 01/79576 A1	9/25/2001	CRS Holdings, Inc.		

Examiner Signature

Deborah Yee

Date Considered

2-3-03

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 3

Complete if Known

Application Number	10/071,688
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First Named Inventor	Charles J. Kuehmann
Group Art Unit	not assigned
Examiner Name	not assigned
Attorney Docket Number	04019.00021

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		Number - Kind Code ² (if known)			
DY		US-6,110,421	08/29/2000	Shimizu et al.	
		US- 6,129,999	10/10/2000	Ueda et al.	
		US- 6,146,475	11/14/2000	Kosa	
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		US- 6,210,806 B1	04/03/2001	Hidaka et al.	
		US- 6,332,934 B2	12/25/2001	Tanida et al.	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
DY		WO 01/31076 A1	5/3/2001	CRS Holdings, Inc.		
		WO 01/40526 A1	6/7/2001	ATI Properties, Inc.		

Examiner
Signature

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		Group Art Unit	1742
		Examiner Name	tba
Sheet 3 of 3	Attorney Docket Number	04019.00021	

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
D-1		Aerospace Material Specification AMS 6257A, 2001, SAE International, Warrendale, PA	
		PHILIP, T. V. and McCaffrey, T. J., Ultrahigh-Strength Steels, Properties and Selection: Irons, Steels, and High-Performance Alloys, 1990, 1: 430-448, ASM International, Materials Park, OH	
		15-5PH, AMS 5659K, 1998, SAE International, Warrendale, PA	
		Carpenter Custom 465™, Alloy Digest, 1998, SS-716, ASM International, Materials Park, OH	
		KIMMEL, W. M., KUHN, N. S., et al., Cryogenic Model Materials, 39 th AIAA Aerospace Sciences Meeting & Exhibit, 2001, Reno, NV	
		ASTM E112 [ASTM, ASTM E112-96, West Conshohocken, PA, 1996]	
		OLSON, G.B., "Computational Design of Hierarchically Structured Materials.", Science 277, pp.1237-1242, 1997.	
		CAMPBELL, CE, "Systems Designed of High Performance Stainless Steels", Materials Science and Engineering, Ph.D. Dissertation, Northwestern University, 243 pages, 1997.	
		MONTGOMERY, J.S. AND OLSEN, G.B., "M2C Carbide Precipitation in AF1410", U.S. Army Materials Technology Laboratory and Northwestern University, Speich Symposium Proceedings, 1992, A Publication of Iron and Steel Society, pp. 174-214.	

Examiner Signature	Deborah Lee	Date Considered	2-3-03
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